

### PATENT COOPERATION TREATY

# **PCT**

#### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference					
P805083/WO/1	FOR FURTHER ACTION	See Form PCT/IPEA/416			
International application No.	International filing date (day/mont	h/year) Priority date (day/month/year)			
PCT/EP2004/002916	19.03.2004	21.03.2003			
International Patent Classification (IPC) or	International Patent Classification (IPC) or national classification and IPC				
Applicant					
DAIMLERCHRYSLER AG					
This report is the international punder Article 35 and transmitted	oreliminary examination report, establis to the applicant according to Article 36.	hed by this International Preliminary Examining Authority			
2. This REPORT consists of a total	_	ets, including this cover sheet.			
3. This report is also accompanied					
	and to the International Bureau) a total	of 9 sheets, as follows:			
	•	have been amended and are the basis for this report and/or			
1 121	• •	ority (see Rule 70.16 and Section 607 of the Administrative			
the disclosure	· ·	authority considers contain an amendment that goes beyond as indicated in item 4 of Box No. I and the Supplemental			
Box.					
b (sent to the Internati	onal Bureau only) a total of (indicate type	e and number of electronic carrier(s))			
, containing a sequence listing and/or tables					
	puter readable form only, as indicated ininistrative Instructions).	n the Supplemental Box Relating to Sequence Listing (see			
4. This report contains indications	relating to the following items:				
Box No. I Basis of	of the report				
Box No. II Priorit	y				
Box No. III Non-e	stablishment of opinion with regard to n	ovelty, inventive step and industrial applicability			
	of unity of invention				
	•	egard to novelty, inventive step or industrial applicability;			
	ns and explanations supporting such stat				
Box No. VI Certai	n documents cited				
Box No. VII Certai	n defects in the international application				
Box No. VIII Certai	n observations on the international appli	cation			
Date of submission of the demand	Date of co	npletion of this report			
Name and mailing address of the IPEA/E	P Authorized	officer			
Facsimile No.	Telephone	No.			

### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/EP2004/002916

Box	No. I		Basis of the report		
1.	With indic	regard to	o the language, this report is based on the international ter this item.	al application in the language in	which it was filed, unless otherwise
		This rep	port is based on translations from the original languag s the language of a translation furnished for the purpo	e into the following language _ ses of:	
		in in	nternational search (Rule 12.3 and 23.1(b))		
		∐ թւ	ublication of the international application (Rule 12.4)		
			nternational preliminary examination (Rule 55.2 and/o		
2.	recei	regard to iving Offi report):	to the elements of the international application, this refice in response to an invitation under Article 14 are	eport is based on (replacement s referred to in this report as "of	heets which have been furnished to the riginally filed" and are not annexed to
1		the inter	rnational application as originally filed/furnished		
	$\boxtimes$	the desc	cription:		
		pages	1-63		as originally filed/furnished
		pages*		received by this Authority on	
		pages*		received by this Authority on	
	$\boxtimes$	the clair	ims:		
		nos.			as originally filed/furnished
		nos.*		as amended (togethe	r with any statement) under Article 19
İ		nos.*	1-31	received by this Authority on	04.01.2005 with the letter of 21.12.2004
		nos.*		received by this Authority on	
	$\boxtimes$	the drav	wings:		
		sheets	1/6-6/6	_	as originally filed/furnished
		sheets*		received by this Authority on	
		sheets*		received by this Authority on	
		a seque	ence listing and/or any related table(s) - see Suppleme	ental Box Relating to Sequence I	isting.
3.			nendments have resulted in the cancellation of:	- •	·
			he description, pages		
			he claims, nos.		
		□ tl	he drawings, sheets/figs		
		ti	he sequence listing (specify):		
			any table(s) related to sequence listing (specify):		د
4.		This re	eport has been established as if (some of) the amendr	ments annexed to this report and	listed below had not been made, since
			he description, pages		
		1 1	he claims, nos.		
		ti	he sequence listing (specify):		
	<u>If</u> ite	em 4 app	lies, some or all of those sheets may be marked "supe		

#### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/EP2004/002916

Во	x No. V			ticle 35(2) with regard to novelty, inventive step or industrial applicability; porting such statement	
1.	Statement				
	Novelty	(N)	Claims	1-31	YES
			Claims		NO
	Inventiv	ve step (IS)	Claims	1-31	YES
			Claims		NO
	Industri	al applicability (IA)	Claims	1-31	YES
			Claims		NO

- 2. Citations and explanations (Rule 70.7)
  - Document D1 (US6050126) is considered the prior 1. art closest to the subject matter of claims 1 and 29 and discloses a method and a device for determining a friction variable representing the friction between a road surface and vehicle tyres, in which method, for at least one vehicle wheel, a wheel slip variable is determined which describes the wheel slip affecting that vehicle wheel, and the friction variable is determined as a function of the wheel slip variable, wheel slip variables being determined during a predefined operating state of the vehicle at different, in particular successive, points in time, and the friction variable being determined by evaluating a frequency distribution value determined for the wheel slip variables.

The subject matter of claims 1 and 29 thus differs from D1 in that a frequency distribution value is determined for said wheel slip variables or for axle slip variables determined as a function of said wheel slip variables, such that the wheel slip variables or the axle slip variables are

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

sorted, in the sense of classification, into slip classes, into which the slip range under consideration is divided, and in that the friction variable is determined by evaluating the frequency distribution value thus calculated.

The subject matter of claims 1 and 29 is thus novel (PCT Article 33(2)).

The present invention can therefore be considered to address the problem of being able to determine more precisely a plurality of friction variables corresponding to the different friction ratios.

The solution to this problem as proposed in claims 1 and 29 of the present application involves an inventive step (PCT Article 33(3)) for the following reasons: the cited document does not disclose the determination of a frequency distribution value for the wheel slip, which is linked to sorting, in the sense of classification, of the wheel slip variables into slip classes. Consequently, there is nothing that would lead a person skilled in the art, even taking into account his knowledge in the art, to the subject matter of claims 1 and 29 in an obvious manner.

2. The subject matter of independent claim 31 (use of the method according to claim 1 in an integrated warning and navigation system) is also novel and inventive in relation to D1.

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/EP2004/002916

	PC1/EP2004/002910
Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
3.	Claims 2-28 are dependent on claim 1 and claim 30
	is dependent on claim 29 and therefore those
	claims likewise meet the PCT requirements for
	novelty and inventive step.
4.	The subject matter of claims 1-31 is industrially
	applicable (PCT Article 33(4)).